

## CLAIMS

What is claimed is:

1           1.     A portable device, comprising:  
2                     a sensor to sense an audio signal; and  
3                     a control unit communicatively coupled to the sensor, the control unit to  
4 receive a first audio signal from a storage unit, generate a second audio signal based on at  
5 least a portion of the sensed audio signal to reduce an undesirable audio signal, combine  
6 the first audio signal and the second audio signal, and provide the combined signal  
7 through a speaker.

1           2.     The portable device of claim 1, wherein the control unit generates the  
2 second audio signal that is out of phase with the sensed signal.

1           3.     The portable device of claim 2, wherein the control unit generates the  
2 second audio signal that is substantially 180 degrees out of phase with the sensed signal.

1           4.     The portable device of claim 1, wherein the control unit receives the first  
2 audio signal comprising digital music.

1           5.     The portable device of claim 1, wherein the sensor is a microphone.

1           6.     The portable device of claim 1, wherein the sensor is located on a  
2 headphone set that is capable of interfacing with the portable device.

1           7.     The portable device of claim 1, wherein the control unit generates the  
2 second audio signal based on at least one of a selected range of frequencies and  
3 amplitude of the sensed signal.

1           8.     A method, comprising:  
2                 receiving a first audio signal;  
3                 converting the first audio signal to an analog audio signal;  
4                 generating a second audio signal to reduce an undesirable sound; and  
5                 combining the analog audio signal and the second audio signal.

1           9.     The method of claim 8, further comprising providing the combined signal  
2 to a speaker.

1           10.    The method of claim 8, wherein generating the second audio signal  
2 comprises receiving a sensed signal and generating an out of phase signal with the sensed  
3 signal.

1           11.    The method of claim 10, wherein generating the out of phase signal  
2 comprises generating a signal that is substantially 180 degrees out of phase with the  
3 sensed signal.

1           12.    The method of claim 8, wherein receiving the first audio signal comprises  
2 receiving a signal comprising at least one of voice and music data.

1           13.    An article comprising one or more machine-readable storage media  
2 containing instructions that when executed enable a processor to:  
3                 receive a first audio signal and a second audio signal;  
4                 generate an audio signal to reduce an undesirable audio signal based on at  
5 least a portion of the second audio signal;  
6                 combine the first audio signal and the generated audio signal; and  
7                 process the combined signal.

1           14.    The article of claim 13, wherein the instructions when executed enable the  
2 processor to convert the first audio signal to an analog signal.

1           15.    The article of claim 13, wherein the instructions when executed enable the  
2 processor to provide the converted signal to a speaker.

1           16.    The article of claim 13, wherein the instructions when executed enable the  
2 processor to receive the second audio signal from a microphone.

1           17.    The article of claim 13, wherein the instructions when executed enable the  
2 processor to generate the audio signal that is out of phase with the second audio signal.

1           18.    The article of claim 13, wherein the instructions when executed enable the  
2 processor to generate the audio signal.

1           19.    A wireless phone, comprising:  
2                   a transceiver;  
3                   a speaker; and  
4                   a control unit to process a first audio signal received from the transceiver,  
5 generate a second audio signal to reduce an undesirable audio signal, combine the first  
6 audio signal and the second audio signal, and provide the combined signal to the speaker.

1           20.    The wireless phone of claim 19, further comprising at least one sensor to  
2 sense an audio signal, wherein the control unit generates the second audio signal based on  
3 the sensed audio signal.

1           21.    The wireless phone of claim 20, further comprising a CODEC to process  
2 the first audio signal.

1           22.    The wireless phone of claim 20, wherein the control unit generates the  
2 second audio signal that is substantially 180 degrees out of phase with sensed audio  
3 signal.

1           23.    A wireless phone of claim 19, further comprising an interface to allow the  
2 wireless phone to reduce the undesirable audio signal while the transceiver is not in use.

1           24.    The wireless phone of claim 19, further comprising a storage medium to  
2 store at least one music file.

1           25.    The wireless phone of claim 19, further comprising a plurality of sensors  
2 to sense audio signals.

1           26.    A communications device, comprising:  
2                   an output interface;  
3                   a sensor to sense an audio signal;  
4                   a generator to generate an audio reduction signal based on at least a  
5 portion of the sensed audio signal;  
6                   a signal adder to combine an audio signal with the audio reduction signal;  
7 and  
8                   a control unit to provide the combined signal to the output interface.

1           27.    The communications device of claim 26, wherein the control unit converts  
2 the audio signal to an analog signal.

1           28.    The communications device of claim 26, wherein the generator generates  
2 the audio reduction signal that is out of phase with the sensed signal.

1           29.    The communications device of claim 28, wherein the generator generates  
2 the audio reduction signal that is substantially 180 degrees out of phase with the sensed  
3 signal.

1           30.    The communications device of claim 28, wherein the sensor is a  
2   microphone and the output interface comprises an interface to a speaker.